

WHAT IS CLAIMED IS:

1. An optical pick-up comprising a supporting shaft, and a lens holder having a bearing part which fits on said supporting shaft rotatably,

wherein said lens holder is a resin molded product comprising a lens supporting part having a lens receiving surface, and said bearing part having a bearing surface disposed vertically to said lens receiving surface, and

wherein said resin molded product comprises a gate at an end of said bearing part disposed at an opposite side of said lens receiving surface.

2. An optical pick-up according to claim 1, wherein said gate is disposed parallel to an inside perimeter of said bearing part.

3. An optical pick-up according to claim 1, wherein a plurality of said lens receiving surface is disposed.

4. An optical pick-up according to claim 1, wherein said resin molded product is a liquid crystal resin composition or a polyphenylene ether resin composition.

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5. An optical pick-up according to claim 4, wherein said resin molded product comprises at least one of a fibrous filler and a flake filler, and has flexural elastic modulus of 10 GPa or more.

6. An optical pick-up according to claim 5, wherein said fibrous filler is at least one selected from the group consisting of a whisker, a carbon fiber, and a glass fiber.

7. An optical pick-up according to claim 5, wherein said flake filler is at least one selected from the group consisting of mica, talc, and graphite.

8. An optical pick-up according to claim 1, wherein said supporting shaft is formed of ceramics.

9. An optical pick-up according to claim 8, wherein said ceramics contain zirconia.

10. A lens holder for an optical pick-up comprising a resin molded product comprising a lens supporting part having a lens receiving surface, and a bearing part

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having a bearing surface disposed vertically to said lens receiving surface,

wherein said resin molded product is formed by injecting a resin from a gate disposed at an end of said bearing part disposed at an opposite side of said lens receiving surface.

11. An optical pick-up comprising a supporting shaft, and a lens holder having a bearing part which fits on said supporting shaft rotatably,

wherein said supporting shaft is formed of ceramics containing zirconia, and

wherein said bearing part is a molded product of a liquid crystal resin composition having flexural elastic modulus of 10 GPa or more.

12. An optical pick-up according to claim 11, wherein said resin composition comprises said liquid crystal resin mixed with at least one of a fibrous filler and a flake filler.

13. An optical pick-up according to claim 12, wherein 20 to 85% by weight of said fibrous filler and/or

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said flake filler is mixed based on the total weight of said resin composition.

14. An optical pick-up according to claim 12, wherein said fibrous filler is at least one selected from the group consisting of a whisker, a carbon fiber, and a glass fiber.

15. An optical pick-up according to claim 12, wherein said flake filler is at least one selected from the group consisting of mica, talc, and graphite.

16. An optical pick-up according to claim 11, wherein said lens holder includes a plurality of object lens holes.

17. A lens holder for an optical pick-up comprising a bearing part which fits on a supporting shaft rotatably, and a plurality of object lens holes,

wherein said lens holder is a molded product of a resin composition comprising a liquid crystal resin or a polyphenylene ether resin mixed with a fibrous filler, and

wherein the molded product has flexural elastic modulus
of 10 GPa or more.

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